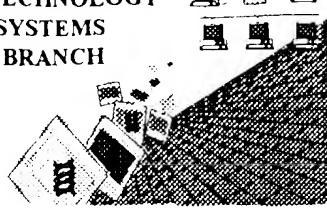


1614
BIOTECHNOLOGY
SYSTEMS
BRANCH



0313
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TECH CENTER 1600/2900

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/882,509
Source: 1614
Date Processed by STIC: 2/12/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER: 09/882, SC9</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>.<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>.<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>.<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>.<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>.<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>.<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input type="checkbox"/> Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	



1614

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/882,509

DATE: 02/12/2002
TIME: 12:21:57

Input Set : A:\51321003.txt
Output Set: N:\CRF3\02122002\I882509.raw

3 <110> APPLICANT: Kuppusamy, Mosuvan
4 Srinivas, Vellimedu K
5 Lahiri, Subhra
6 Ella, Krishna
7 Khatri, Ghan S

9 <120> TITLE OF INVENTION: Recombinant Streptokinase

11 <130> FILE REFERENCE: 51321.003

13 <140> CURRENT APPLICATION NUMBER: 09/882,509

14 <141> CURRENT FILING DATE: 2001-06-15

16 <160> NUMBER OF SEQ ID NOS: 5

18 <170> SOFTWARE: PatentIn version 3.1

20 <210> SEQ ID NO: 1

21 <211> LENGTH: 24

22 <212> TYPE: DNA

23 <213> ORGANISM: Synthetic primer

25 <400> SEQUENCE: 1

26 ggaattcatg aaaaattact tatac 24

29 <210> SEQ ID NO: 2

30 <211> LENGTH: 26

31 <212> TYPE: DNA

32 <213> ORGANISM: Synthetic primer

34 <400> SEQUENCE: 2

35 ggatccttat ttgtcgtagt ggttat 26

38 <210> SEQ ID NO: 3

39 <211> LENGTH: 1245

40 <212> TYPE: DNA

41 <213> ORGANISM: Streptococcus equisimilis (ATCC 9542)

43 <400> SEQUENCE: 3

44 attgctggac ctgagtggt gctagaccgt ccatctgtca acaacagcca attagttgtt 60

46 agcggtgtgt gtactgttg aaaaaatccat caagacatggat gtcattaaatt ttttggaaatt 120

48 gacctaacat cacgacactgc tcattggagga aagacagagc aaggcttaag tccaaaatca 180

50 aaaccatttg ctactgatag tggcgcgatg ccacataaac ttgaaaaagc tgacttacta 240

52 aaggctattt aagaacaattt gatcgtaac gtccacatgtt acgacgacta ctggggatgtc 300

54 attgattttg caagcgatgc aaccattact gatcgaaacg gcaaggctca ctggggatgtc 360

56 aaagatgggtt cggtaacctt gcccggccaa cctgtccaaat gatggggatgtc aaggccgat 420

58 gtgcgcgttta gaccatataa agaaaaacca atacaaaatc aagcgaaatc ttggatgtc 480

60 gaatatactg tacatgttac tcccttaaac cctgtccaaat gatggggatgtc aaggccgat 540

62 gatactaagg tattggaaaac actatgttac ggtgacacca tcacatctca agaattacta 600

64 gctcaaggcac aaagcattttt aaacaaaacc caccggctt atacgattta tgaacgtgac 660

66 tcttcaatcg tcactcatgtt caatgttac ttccgtacca ttggatgtc aaggccgat 720

68 ttatcttacc atgtcaaaaaa tcggaaacaa gctttagata tcaataaaaaa atctgggtctg 780

70 aatgaagaaa taaacaaacac tgacctgttca tctggatgtt attacgttcaatgttca 840

72 gaaaagccgtt atgttccctt tgatcgatgtt cacttggaaac ttggatgtc aaggccgat 900

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/882,509

DATE: 02/12/2002
TIME: 12:21:58

Input Set : A:\51321003.txt
Output Set: N:\CRF3\02122002\I882509.raw

74 gatgtcaaca ccaacgaatt gctaaaaagc gagcagctct taacagctag cgaacgtaac 960
76 ttagacttca gagattata cgatcctcgta gataaggcta aactactcta caacaatctc 1020
78 gatgcttttg gtattatgga ctatacctta actggaaaag tagaggataa tcacgatgac 1080
80 accaaccgta tcataaccgt ttatatggc aagcgaccg aaggagagaa tgctagctat 1140
82 catttagcct atgataaaaga tcgttataacc gaagaagaac gagaagttt cagctacctg 1200
84 cgttatacag ggacacctat acctgataac cctaacgaca aataa 1245
87 <210> SEQ ID NO: 4
88 <211> LENGTH: 12
89 <212> TYPE: PRT
90 <213> ORGANISM: Streptococcus equisimilis (ATCC 9542)
92 <400> SEQUENCE: 4
94 Ile Ala Gly Pro Glu Trp Leu Leu Asp Arg Pro Ser
95 1 5 10
98 <210> SEQ ID NO: 5
99 <211> LENGTH: 5
100 <212> TYPE: PRT
101 <213> ORGANISM: Streptococcus equisimilis (ATCC 9542)
103 <400> SEQUENCE: 5
105 Lys Asp Asp Pro Asn
106 1 5

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/882,509

DATE: 02/12/2002

TIME: 12:21:59

Input Set : A:\51321003.txt

Output Set: N:\CRF3\02122002\I882509.raw

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/598,218

DATE: 02/12/2002

TIME: 12:23:46

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\02122002\I598218.raw



1653

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/598,218

DATE: 02/12/2002
TIME: 12:23:45

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\02122002\I598218.raw

3 <110> APPLICANT: Ho, Chien
4 Tsai, Ching-Hsuan
5 Fang, Tsuei-Yun
6 Shen, Tong-Jian
8 <120> TITLE OF INVENTION: Low Oxygen Affinity Mutant Hemoglobins
10 <130> FILE REFERENCE: 2000-02
12 <140> CURRENT APPLICATION NUMBER: US 09/598,218
13 <141> CURRENT FILING DATE: 2000-06-21
15 <160> NUMBER OF SEQ ID NOS: 7
17 <170> SOFTWARE: PatentIn Ver. 2.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 28
21 <212> TYPE: DNA
22 <213> ORGANISM: Artificial Sequence
24 <220> FEATURE:
25 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer to
26 introduce betaN108Q mutation into plasmid pHE2
28 <400> SEQUENCE: 1
29 cgtctgctgg gtcaggtaact agtttgcg 28
32 <210> SEQ ID NO: 2
33 <211> LENGTH: 30
34 <212> TYPE: DNA
35 <213> ORGANISM: Artificial Sequence
37 <220> FEATURE:
38 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer to
39 introduce mutation alphaD94A into plasmid pHE2
41 <400> SEQUENCE: 2
42 ctgcgtgttg ctccggtaaa cttcaaaactg 30
45 <210> SEQ ID NO: 3
46 <211> LENGTH: 29
47 <212> TYPE: DNA
48 <213> ORGANISM: Artificial Sequence
50 <220> FEATURE:
51 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer to
52 introduce betaL105W mutation into plasmid pHE2
54 <400> SEQUENCE: 3
55 gaaaaacttc cgatggctgg gtaacgtac 29
58 <210> SEQ ID NO: 4
59 <211> LENGTH: 27
60 <212> TYPE: DNA
61 <213> ORGANISM: Artificial Sequence
63 <220> FEATURE:
64 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer to

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/598,218

DATE: 02/12/2002
TIME: 12:23:45

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\02122002\I598218.raw

65 introduce betaN108Q mutation into plasmid pHE7
 67 <400> SEQUENCE: 4
 68 acagaccagt acttgtccca ggagcct 27
 71 <210> SEQ ID NO: 5
 72 <211> LENGTH: 1140
 73 <212> TYPE: DNA
 74 <213> ORGANISM: Human
 76 <400> SEQUENCE: 5
 77 aatgagctg ttgacaattt atcatcggt cgtataatgt gtggaaattgt gagcggataa 60
 78 caatttcaca cagggaaacag aattcgagct cggtaaccgg gctacatgga gattaactca 120
 79 atcttagaggg tattaataat gtatcgctta aataaggagg aataacatat ggtgctgtct 180
 80 cctgccgaca agaccaacgt caaggccgccc tgggttaagg tcggcgcgca cgctggcgag 240
 81 tatggtgcgg aggccctgga gaggatgtt cttgtccttcc ccaccaccaa gacctacttc 300
 82 cccgacttcg atctgagcca cggctctgcc caggttaagg gccacggcaa gaaggtggcc 360
 83 gacgcgctga ccaacgcgt ggcgcacgtg gacgacatgc ccaacgcgt gtccgcctg 420
 84 aqcgacactgc acgcgcacaa gcttcgggtg gacccggctca acttcaagct cctaagccac 480
 85 tgccctgctgg tgaccctggc cgccccaccc cccggcgagt tcaccctgc ggtgcacgcc 540
 86 tccctggaca agttcctggc ttctgtgagc accgtgctga cctccaaata ccgttaaact 600
 87 agagggtatt aataatgtat cgcttaaata aggaggaata acatatggtg cacctgactc 660
 88 ctgaggagaa gtctgccgtt actgccctgt gggcaaggt gaacgtggat gaagttggtg 720
 89 gtgaggccct gggcaggctg ctgggtgtct acccttggac ccagagggtc tttgagtct 780
 90 ttgggatct gtccactct gatgtgttta tggcaaccc taaggtgaag gtcatggca 840
 91 agaaaagtgtc cgggccttt agtgtatggcc tggctcacct ggacaaaccc aaggcgcac 900
 92 ttgccacact gagtgagctg cactgtgaca agctgcacgt ggatccttag aacttcaggc 960
 93 tccctggaca agtactggc tgggtgtctt cccatcaatt tggcaaagaa ttcacccac 1020
 94 cagtgcaggc tgcctatcag aaagtggtgg ctgggtgtgc taatgccctg gcccacaagt 1080
 95 atcactaaggc atgcatctgt ttggcggat gagagaagat tttcagcctg atacagatta 1140
 98 <210> SEQ ID NO: 6
 99 <211> LENGTH: 36
 100 <212> TYPE: DNA
 101 <213> ORGANISM: Artificial Sequence
 103 <220> FEATURE:
 104 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer to
 105 introduce betaL105W mutation into plasmid pHE7
 107 <400> SEQUENCE: 6 36
 108 cctgagaact tcaggtggct aggcaacgtg ctggtc
 111 <210> SEQ ID NO: 7
 112 <211> LENGTH: 1140
 113 <212> TYPE: DNA
 114 <213> ORGANISM: Human
 116 <400> SEQUENCE: 7
 117 aatgagctg ttgacaattt atcatcggt cgtataatgt gtggaaattgt gagcggataa 60
 118 caatttcaca cagggaaacag aattcgagct cggtaaccgg gctacatgga gattaactca 120
 119 atcttagaggg tattaataat gtatcgctta aataaggagg aataacatat ggtgctgtct 180
 120 cctgccgaca agaccaacgt caaggccgccc tgggttaagg tcggcgcgca cgctggcgag 240
 121 tatggtgcgg aggccctgga gaggatgtt cttgtccttcc ccaccaccaa gacctacttc 300
 122 cccgacttcg atctgagcca cggctctgcc caggttaagg gccacggcaa gaaggtggcc 360
 123 gacgcgctga ccaacgcgt ggcgcacgtg gacgacatgc ccaacgcgt gtccgcctg 420
 124 aqcgacactgc acgcgcacaa gcttcgggtg gacccggctca acttcaagct cctaagccac 480

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/598,218

DATE: 02/12/2002

TIME: 12:23:45

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\02122002\I598218.raw

125 tgcctgctgg tgaccctggc cggccaccc cccgcccagt tcacccctgc ggtgcacgcc 540
126 tccctggaca agttcctggc ttctgtgagc accgtgctga cctccaaata ccgttaaact 600
127 agagggtatt aataatgtat cgcttaaata aggaggaata acatatggtg cacctgactc 660
128 ctgaggagaa gtctgccgtt actgccctgt gggcaaggt gaacgtggat gaagttggtg 720
129 gtgaggccct gggcaggctg ctggtggtt acccttggac ccagagggtc tttgagtcct 780
130 ttggggatct gtccactctt gatgctgtt tggcaaccc taaggtgaag gctcatggca 840
131 agaaagtgtc cggtgcctt agtgtatggcc tggctcacct ggacaacctc aagggcacct 900
132 ttgccacact gagtgagctg cactgtgaca agctgcacgt ggatcctgag aacttcaggt 960
133 gcctaggcaa cgtgctggc tggctgtgg cccatcaatt tggcaaagaa ttccacccac 1020
134 cagtgcaggc tgcctatcag aaagtgggtt ctgggtggc taatgccctg gcccacaagt 1080
135 atcactaagc atgcatactgt tttggcgat gagagaagat ttccagcctg atacagattt 1140